Janet Li

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Passionate and diligent MSc. Bioinformatics student experienced in full stack web development and computational genomics.

SKILLS

Languages

- Python
- Javascript
- Bash
- SQL
- R

Technologies

- React/Next.js
- Express.js
- PostgreSQL
- HTML5
- CSS/SCSS

EDUCATION

University of British Columbia

MSc. Bioinformatics — Sept. 2020 - Present

- Awarded the British Columbia Graduate Scholarship consecutively for the Sept. 2020 - Aug. 2021 and Sept. 2021 - Aug. 2022 academic years
- Expected graduation: June 2022

BSc. Applied Biology — Sept. 2015 - Apr. 2020

- Awarded the F. E. Buck Prize for the Sept. 2019 - Apr. 2020 academic year
- Awarded the Gordon Robert Smith Scholarship for the Sept. 2018 - Apr. 2019 academic year

EXPERIENCE

Bioinformatics Research Network

Volunteer Web Developer — Jul. 2021 - Dec. 2021

- Implemented responsive user interfaces for a bioinformatics web application in React and Typescript, communicating with a Flask API
- Developed a user authentication system with Firebase, managing global user state with React Context

Canada's Michael Smith Genome Sciences Centre

Bioinformatics Research Assistant — Sept. 2019 - Apr. 2020

- Extended the Tigmint software (Python, GNU Make) to use long sequencing reads to identify and correct misassembled contigs in genome assemblies
- Implemented a continuous integration pipeline with Azure Pipelines and Github Actions to run integration tests and enforce code styling

PERSONAL PROJECTS

Biru (source code) — Sept. 2021 - Dec. 2021

- Designed and implemented a responsive beer journal web application using Next.js, using React Context for global state management
- Developed a RESTful Express.js server for persistent data storage in a PostgreSQL database with the Sequelize ORM, including a session-based authentication system with express-session and Passport.js
- Integrated Cloudinary for managing image uploads and storage

Vibe Check (source code) — May 2021 - June 2021

- Designed and developed a responsive user interface in Next.js that allows users to determine their mood from their Spotify listening history at different time scales
- Implemented an Express.js server to analyse data, authorise users and fetch their listening data using Spotify's OAuth2.0 framework and Web API